Paper No. 13

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

Ex parte RALPH N. MILLER, MALLIKARJUNA V.N. RAO, and STEVEN H. SWEARINGEN

Appeal No. 2002-1584 Application No. 09/283,449

ON BRIEF

Before WINTERS, ADAMS, and GRIMES, <u>Administrative Patent Judges</u>. WINTERS, <u>Administrative Patent Judge</u>.

DECISION ON APPEAL

This appeal was taken from the examiner's decision rejecting claims 10 and 26 through 28. Claims 11 through 25, which are the only other claims remaining in the application, stand withdrawn from further consideration by the examiner as drawn to a non-elected invention.

Claims 10 and 27, which are illustrative of the subject matter on appeal, read as

follows:

- 10. A composition comprising hydrogen fluoride in combination with an effective amount of CF₃CCIFCF₃ to form an azeotrope or azeotrope-like composition said composition containing from about 38.4 to 47.9 mole percent CF₃CCIFCF₃.
- 27. A composition which consists essentially of an azeotropic combination of hydrogen fluoride with CF₃CCIFCF₃.

The prior art reference relied on by the examiner is:

Webster et al. (Webster)

5,057,634

Oct. 15, 1991

The appealed claims stand rejected as follows: (1) claim 10 under 35 U.S.C. § 102(b) as anticipated by Webster; and (2) claims 10 and 26 through 28 under 35 U.S.C. § 103 as unpatentable over Webster.

Our deliberations in this matter have included evaluation and review of the following materials: (1) the instant specification, including Figure 1 and all claims on appeal; (2) applicants' Appeal Brief (Paper No. 11); (3) the Examiner's Answer (Paper No. 12); and (4) the Webster patent.

On consideration of the record, including the above-listed materials, we <u>reverse</u> the examiner's rejections under 35 U.S.C. § 102(b) and 35 U.S.C. § 103.

<u>Discussion</u>

We shall not belabor the record with extended commentary in this case. Rather, we find it sufficient to note that each appealed claim is drawn to a composition combining hydrogen fluoride and CF₃CCIFCF₃; and that each composition is "an azeotrope or azeotrope-like composition" or consists essentially of "an azeotropic

combination."

In rejecting these claims on prior art grounds, the examiner relies heavily on Example 58 of Webster. The examiner argues that (1) the reported results of a reaction, described by Webster in Example 58, include 45.8% CF₃CCIFCF₃¹; and (2) "[t]he presence of HF [hydrogen fluoride] in the product is assured do [sic] to the use of an excess in the reaction and the inevitability of incomplete conversion of the starting material" (Paper No. 12, page 4, lines 12 and 13).

Conspicuous by its absence from the Examiner's Answer, however, is an adequate explanation why or how a person having ordinary skill would have arrived at the "azeotrope or azeotrope-like composition" of claims 10, 26, and 28 or the "azeotropic combination" of claim 27. It is as though the examiner finds it sufficient that Webster describes a composition containing hydrogen fluoride and CF₃CCIFCF₃. But that is not enough. On the contrary, every limitation in the claims must be given effect rather than considering one in isolation from the others. In re Geerdes, 491 F.2d 1260, 1262, 180 USPQ 789, 791 (CCPA 1974). Simply stated, Example 58 of Webster constitutes insufficient evidence to support a finding of anticipation of claim 10, or to support a conclusion of obviousness of claims 10 and 26 through 28, because Webster

does not disclose or suggest the "azeotrope or azeotrope-like composition" or

¹ In Example 58 of Webster, the results are expressed in gas chromatograph area %.

"azeotropic combination" called for by the appealed claims.2

Accordingly, we do not sustain the rejection of claim 10 under 35 U.S.C. § 102(b) as anticipated by Webster, or the rejection of claims 10 and 26 through 28 under 35 U.S.C. § 103 as unpatentable over Webster.

The examiner's decision is reversed.³

REVERSED

Sherman D. Winters Administrative Patent Judge)))
Donald E. Adams Administrative Patent Judge)) BOARD OF PATENT)) APPEALS AND
Eric Grimes Administrative Patent Judge)) INTERFERENCES))

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² In their specification, applicants use the terms "azeotrope," "azeotrope-like composition," and "azeotropic combination" consistent with the art-recognized meaning of those terms. Compare the specification, page 4, line 8 through page 5, line 13 with The Condensed Chemical Dictionary, 8th edition, Van Nostrand Reinhold Co., p. 86 (1971)(copy enclosed).

³ Applicants also request rejoinder and allowance of withdrawn claims 11 through 25 (Appeal Brief, Paper No. 11, page 10). However, we lack authority to entertain that request. See In re Hengehold, 440 F.2d 1395, 1404, 169 USPQ 473, 479 (CCPA 1971)(There are a host of decisions an examiner makes in the examination proceeding - mostly matters of a discretionary, procedural or non-substantive nature - which have not been and are not now appealable to the board or to this court when they are not directly connected with the merits of issues involving rejections of claims).

Wilmington, DE 19805

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